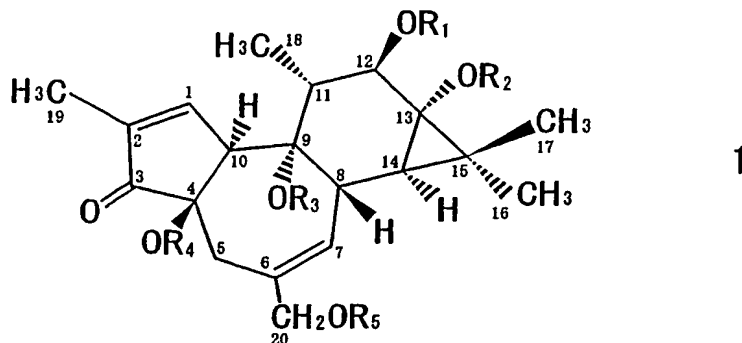


CLAIMS

1. An antiviral preparation characterized by comprising as an active ingredient, at least a phorbol derivative of formula 1:



wherein R_1 is a group of $-(CH_2)_aX(CH_2)_bCH_3$ wherein X is O or S, a is a number of 1 to 3, and b is a number of 0 to 5, a group of $-(CH_2)_cX(CH_2)_dYCH_3$ wherein X and Y are O or S, c is a number of 1 to 3, and d is a number of 1 to 5, a group of $-CO(CH_2)_eCH_3$ wherein e is a number of 0 to 12, or a group of $-(CH_2)_fCH_3$ wherein f is a number of 0 to 5,

R_2 is a group of $-CO(CH_2)_nCH_3$ wherein n is a number of 3 to 12, and

R_3 , R_4 and R_5 are independently of one another, hydrogen atom, or an aliphatic or aromatic carboxylic acid residue, and

having a specific safety index $S.I. = CC_{50}/EC_{50}$ of 10 or more wherein EC_{50} means a concentration at which HIV-1 induced cytopathogenic effect (CPE) in MT-4 cell is inhibited by 50%, and CC_{50} means a concentration at which survival of MT-4 cell in a cell proliferation test is reduced by 50%.

2. The antiviral preparation according to claim 1, wherein R_1 in formula 1 is a group of $-(CH_2)_aX(CH_2)_bCH_3$ wherein X is O or S, a is a number of 1 to 3, and b is a number of 0 to 5.

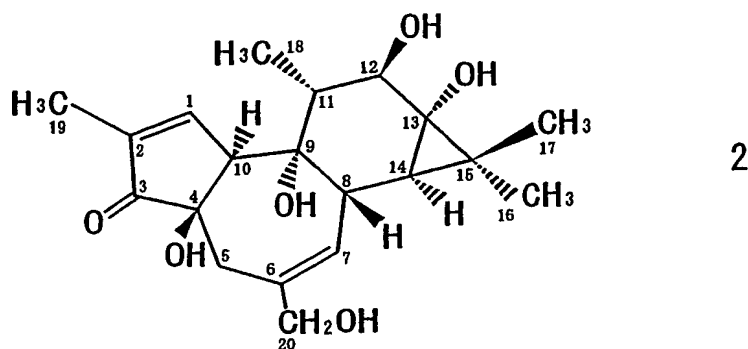
3. The antiviral preparation according to claim 1, wherein R_1 in formula 1 is a group of $-(CH_2)_cX(CH_2)_dYCH_3$ wherein X and Y are O or S, c is a number of 1 to 3, and d is a number of 1 to 5.

4. The antiviral preparation according to claim 1, wherein R_1 in formula 1 is a group of $-CO(CH_2)_eCH_3$ wherein e is a number of 0 to 12.

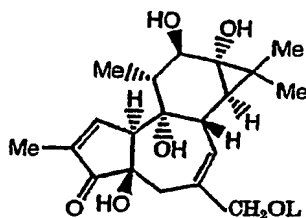
5. The antiviral preparation according to claim 1, wherein R_1 in formula 1 is a group of $-(CH_2)_fCH_3$ wherein f is a number of 0 to 5.

6. A process for producing the phorbol derivative of formula 1 according to claim 1, comprising:

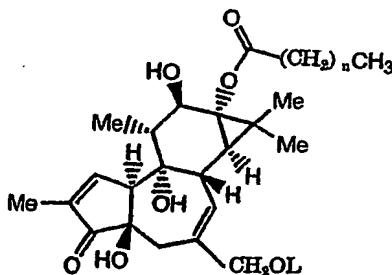
converting a group of $-CH_2OH$ on a naturally occurring or synthetic intermediate phorbol of formula 2:



into a group of $-CH_2OL$ wherein L is a protective group, to produce a compound of formula



reacting the compound with a compound of $CH_3(CH_2)_nCOCl$ wherein n is the same meaning as the definition in claim 1, to produce a compound of formula



reacting the compound with a compound of R_1Cl wherein R_1 is the same meaning as the definition in claim 1, to produce a compound of formula

14. The anti-HIV virus preparation according to claim 7, characterized in that the other agent having anti-HIV effect is an agent that suppresses a maturity of infectious virus particles released and escaped from cell membrane.